

Applicant: George P. Emerson
For: IMPROVED INSUFFLATION-EXSUFFLATION SYSTEM WITH
PERCUSSIVE ASSIST FOR REMOVAL OF BRONCHO-
PULMONARY SECRETIONS

ABSTRACT OF DISCLOSURE

5 An improved insufflation-exsufflation system with percussive assist for removal
of broncho-pulmonary secretions includes a conduit for connection to a patient's airway; a
pressure source for providing to the conduit alternating positive and negative pressure
fluctuations at a first rate corresponding to patient insufflation-exsufflation; and a control
mechanism for varying pressure during positive and negative pressure fluctuations at a
10 second higher rate to periodically decrease the positive pressure during positive
fluctuations and decrease the negative pressure during negative fluctuations to provide
percussive pulses during at least one of insufflation-exsufflation to clear broncho-
pulmonary secretions from the patient's airway.